

Title (en)
APPARATUS AND METHOD FOR ESTIMATING BIO-INFORMATION

Title (de)
VORRICHTUNG UND VERFAHREN ZUR SCHÄTZUNG VON BIOINFORMATIONEN

Title (fr)
APPAREIL ET PROCÉDÉ D'ESTIMATION D'INFORMATIONS BIOLOGIQUES

Publication
EP 3854301 A1 20210728 (EN)

Application
EP 20216581 A 20201222

Priority
KR 20200009152 A 20200123

Abstract (en)
An apparatus for estimating bio-information may include a sensor configured to obtain a bio-signal from an object, and a processor configured to obtain a second-order differential signal of the bio-signal, and extract a progressive wave component from the bio-signal using, based on a first local minimum point of the second-order differential signal being stable, the first local minimum point of the second-order differential signal, or extract the progressive wave component from the bio-signal using, based on the first local minimum point of the second-order differential signal being unstable, a maximum amplitude point in a systolic portion of the bio-signal.

IPC 8 full level
A61B 5/021 (2006.01)

CPC (source: CN EP KR US)
A61B 5/0002 (2013.01 - CN); **A61B 5/0006** (2013.01 - CN); **A61B 5/0075** (2013.01 - KR); **A61B 5/02007** (2013.01 - CN);
A61B 5/0205 (2013.01 - CN); **A61B 5/02108** (2013.01 - CN EP KR); **A61B 5/02116** (2013.01 - US); **A61B 5/02416** (2013.01 - CN EP KR US);
A61B 5/02438 (2013.01 - CN); **A61B 5/029** (2013.01 - CN); **A61B 5/6802** (2013.01 - CN); **A61B 5/6803** (2013.01 - CN);
A61B 5/681 (2013.01 - CN KR); **A61B 5/7239** (2013.01 - EP KR US); **A61B 5/7275** (2013.01 - KR); **A61B 5/7278** (2013.01 - US);
A61B 5/746 (2013.01 - CN)

Citation (search report)
• [X] US 2019076099 A1 20190314 - PARK CHANG SOON [KR], et al
• [A] US 6616613 B1 20030909 - GOODMAN JESSE B [CA]
• [I] US 2019110757 A1 20190418 - KWON UI KUN [KR], et al
• [E] EP 3791780 A1 20210317 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3854301 A1 20210728; **EP 3854301 B1 20240313**; CN 113143202 A 20210723; KR 20210095375 A 20210802; US 11890084 B2 20240206;
US 2021228100 A1 20210729

DOCDB simple family (application)
EP 20216581 A 20201222; CN 202011104957 A 20201015; KR 20200009152 A 20200123; US 202017038692 A 20200930